

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Architecture Program: Faculty Scholarly and
Creative Activity

Architecture Program

1997

Evaluation of the Built Environment on Ice: Polar Field Tent Shelters and Well-Being of their Users [Abstract]

X. Winston Yan

University of Nebraska - Lincoln

James J. Potter

University of Nebraska - Lincoln, jpotter2@unl.edu

Nate Krug

University of Nebraska - Lincoln

Follow this and additional works at: https://digitalcommons.unl.edu/arch_facultyschol



Part of the [Architecture Commons](#)

Yan, X. Winston; Potter, James J.; and Krug, Nate, "Evaluation of the Built Environment on Ice: Polar Field Tent Shelters and Well-Being of their Users [Abstract]" (1997). *Architecture Program: Faculty Scholarly and Creative Activity*. 12.

https://digitalcommons.unl.edu/arch_facultyschol/12

This Article is brought to you for free and open access by the Architecture Program at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Architecture Program: Faculty Scholarly and Creative Activity by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

extremely harsh environment, and to help alleviate the adverse impact of the unusual social conditions on their users. Based on data of a survey of nearly one hundred U.S. polar researchers and their support personnel, this presentation reports on a study of various field tent shelters used in polar and circumpolar areas. The study focused on the design of the shelters and the implication for health and well-being of users from an environment-behavior perspective. Preliminary analysis indicates that while design of field tent shelters was generally satisfactory, there does exist quite a few areas in which the design and use of the shelters had an adverse bearing on the health and well-being of a considerable number of shelter users. Some suggestions to be used for establishing performance criteria in the future design and manufacture of the tent shelters will also be discussed.

Yan, X. Winston; Potter, James J. and Krug, Nate (Nebraska, Lincoln) *Evaluation of the Built Environment on Ice: Polar Field Tent Shelters and Well-Being of their Users*. Polar and circumpolar research teams often spend extended periods of time away from base research stations, living and working in remote field camps of portable shelters. As the primary built environment, the shelters are to protect their occupants from the